Wednesday, 1/30/2008 7:56:56 AM Kim Johnston **Process Sheet Drawing Name** : SHORT PIN BRACKET : CU-DAR001 Dart Helicopters Services Customer Job Number : 37079 **Estimate Number** : D333013 Part Number P.O. Number - D3330 REV D : 1/30/2008 S.O. No. : **Drawing Number** This Issue : N/A : NC Project Number Prsht Rev. : 11 : MACHINED PARTS **Drawing Revision** : D First Issue Type Material Previous Run Each : 2/18/2008 **Due Date** Written By Checked & Approved By New issue KJ/JLM : Est. Comment est 07.05.14 rev c dwg Rev D dwg EC veryfied by:DD Est 07.12.12 **Additional Product** Job Number: Description: Seq. #: **Machine Or Operation:** 1010-1025 Steel Bar 1.0 Comment: Qty.: _0.4485 f(s)/Unit __Total : 1010-1025 Steel Bar Material: AISI 1010-1025 or ASTM A36/A366/A569/A570 Cold Rolled Steel (M1010-B2.500x01.000) Identify for D3330-13 2.0 Comment: BAND SAW Cut blanks: 2.500" x 1.000" x 3.00" long (+/-0.030) 3.0 HAAS CNC VERTICAL MACHINING #1 Comment: HAAS CNC VERTICAL MACHINING #1 Machine as per Folio FA480 and Dwg D3330 Identify as D3330-13 Deburr 4.0 QC2

Page 1

Comment: INSPECT PARTS AS THEY COME OFF MACHINE

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W/O:		WORK ORDER C	CHANGES					
DATE	STEP PROCEDURE CHANGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	
					,			
	·	•						

Part No: D3330-013 PAR #: NA Fault Category: Prod Machines AbnCR: Yes No DQA: D Date: 04/16

QA: N/C Closed: D Date: 04/1/6

NCR: 3	7079	W	ORK OR	DER NON-CONFORMANCE	E (NCR)			
		Description of NC		Corrective Action Section B		Verification	Approval	Approval
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	QC Inspector
08/02/25		.625 Is too big . 1645.	-	Scraps replace at/1 m_107220	D5V 08/02/26	purso	Poston	mark
		R.C. operator enor X origin was aft or second operation.						
								1
							1	

NOTE: Date & initial all entries

Wednesday, 1/30/2008 7:56:57 AM Date: Kim Johnston User: 4 **Process Sheet** Drawing Name: SHORT PIN BRACKET Customer: CU-DAR001 Dart Helicopters Services Job Number: 37079 Part Number: D333013 Job Number: Description: Seq. #: Machine Or Operation: SECOND CHECK QC8 5.0 Comment: SECOND CHECK PACKAGING RESOURCE #1 6.0 Comment: PACKAGING RESOURCE #1 Identify and Stock Location: WA15 7.0 QC21 Comment: FINAL INSPECTION/W/O RELEASE Job Completion

Dart Aerospace Ltd

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W/O:			٧	VORK ORDER CHANG	ES		· · · · · · · · · · · · · · · · · · ·			
DATE	STEP	PROC	PROCEDURE CHANGE			Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
				-						
				· .						
Part No		PAR #:	_ Fault Ca	tegory:	_ NCR:	Yes N	o DQ A	\:	Date:	
						QA: N/C	Closed	l:	_ Date:	
NCR:		W	ORK OR	DER NON-CONFORMA	ANCE ((NCR)	· · · · · · · · · · · · · · · · · · ·		·····	
		Description of NC	Description of NC Corrective Action		ion B		Verification		Approval	Approval
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng		Sign & Date			Chief Eng	QC Inspector
		:								
:										
		:				·				

NOTE: Date & initial all entries

DART AEROSPACE LTD	Work Order:	37079
Description: Short Pin Bracket	Part Number:	D3330-13
Inspection Dwg: D3330 Rev:		Page 1 of 1

FIRST ARTICLE INSPECTION CHECKLIST

X First Article Prototype

Drawing Dimension	Tolerance	Actual • Dimension	Accept	Reject	Method of Inspection	Comments
3.00	+/-0.030	2.995	/			
2.625	+/-0.010	2,635				
0.260	+/-0.010	. 258		, ·		
Ø0.594	+0.005/-0.000	2596	S			
0.625	+/-0.010	.628	V			
0.500	+/-0.010	,505				\
2.25	+/-0.030	2.255	/			
Ø0.531	+0.005/-0.000	.531	✓			
0.950	+/-0.010	.949	/			
Ø0.348	+0.005/-0.000	.349	1			
\$ 0.467	+/-0.010	470				· ·
1.250	+/-0.010	1.251	V.			
1.00	+/-0.030	1.00	V			
0.10 x 45°	+/-0.030	.108				
Ø0.516	+0.005/-0.000	.520	/			

Measured by: A Audited by: And Prototype Approval: N/A

Date: 68/02/26

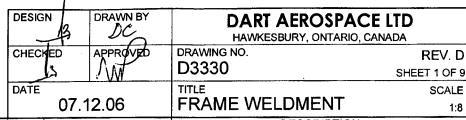
Date: 68/02/26

Date: N/A

Rev	Date	Ćhange	Revised by Appro	oved
Α	05.05.10	New Issue	KJ/JLM	
В	06.03.09	Dwg Rev updated	KJ/JLM	
С	07.05.16	Dwg Rev updated	KJ/EC &	



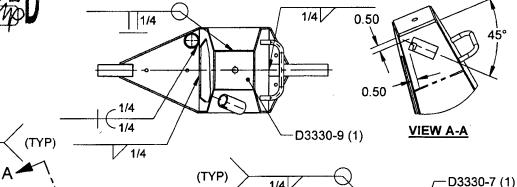


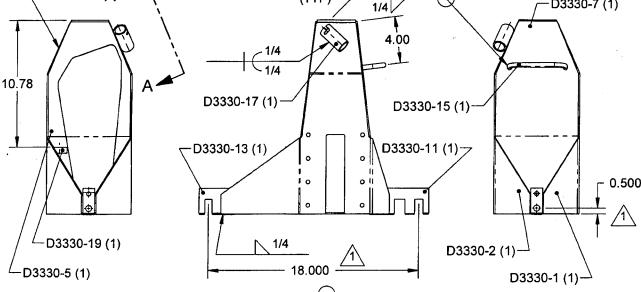


DESCRIPTION DATE REV 04.12.16 **NEW ISSUE** В 05.02.26 **RE-DESIGN** ADD 0.100 DIM; RAISED BEND OF -1/-2 BY 0.125 CHANGE DIMS ON D3330-9 07.03.20 С D 07.12.06



1/4





1/4 1/4 SHOP COPY D3330-3 (1) RETURN TO ENGINEERING UNCONTROLLED COPY SUBJECT TO AMENDMENT 1/4 WITHOUT NOTICE WORK ORDER

D3330-041 FRAME WELDMENT

NOTES:

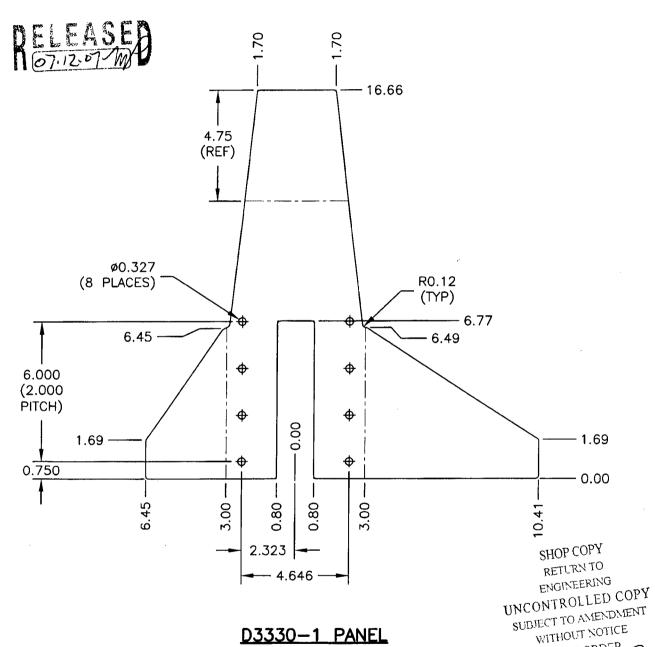
- 1) POSITION PARTS AS PER JIG D3330-041T1
- 2) WELD PER QSI 004 3) FINISH: POWDER COAT PAINT FIRE RED (4.3.5.10) PER DART QSI 005 4.3
- TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- 5) ALL DIMENSIONS ARE IN INCHES
- 6) BREAK ALL SHARP EDGES 0.010 TO 0.020

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DESIGN	DRAWN BY	DART AEROSF HAWKESBURY, ONTAK	
СНЕСКЕ	APRROVED)	DRAWING NO.	REV. D SHEET 2 OF 9
DATE		TITLE	SCALE
07.12.06		FRAME WELDMENT	1:4

WORK ORDER

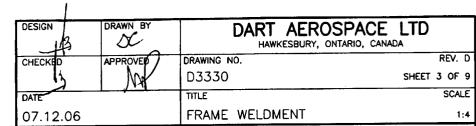


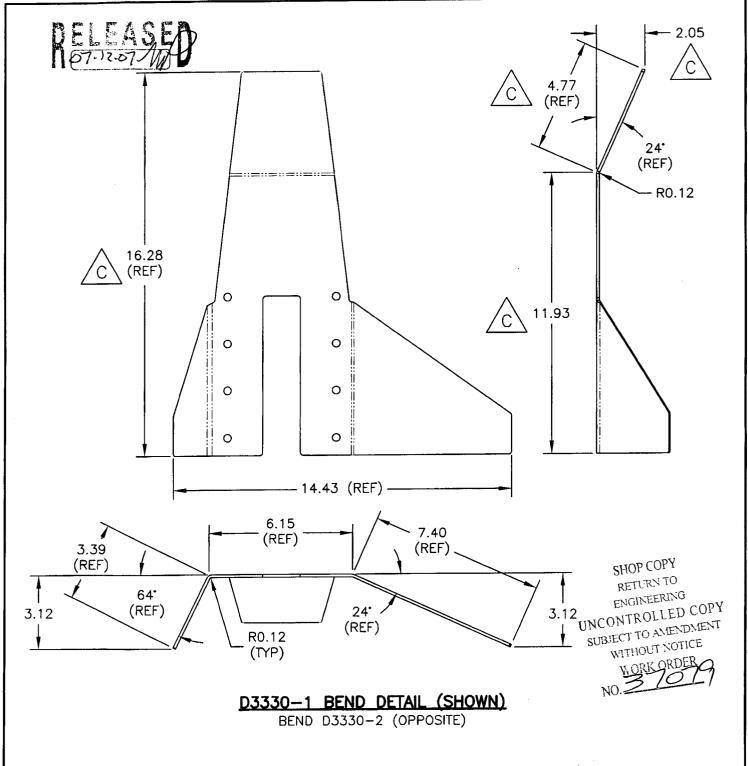
D3330-1 PANEL

NOTES:

- 1) MATERIAL: AISI 1010-1025 OR ASTM A36/A366/A1008 OR CSA G40-21, 38W/44W/50W/60W/70W SERIES STEEL 11 GAUGE (0.125 THICK)
- 2) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- 3) ALL DIMENSIONS ARE INCHES
- 4) BREAK ALL SHARP EDGES 0.005 TO 0.010

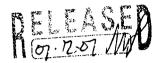


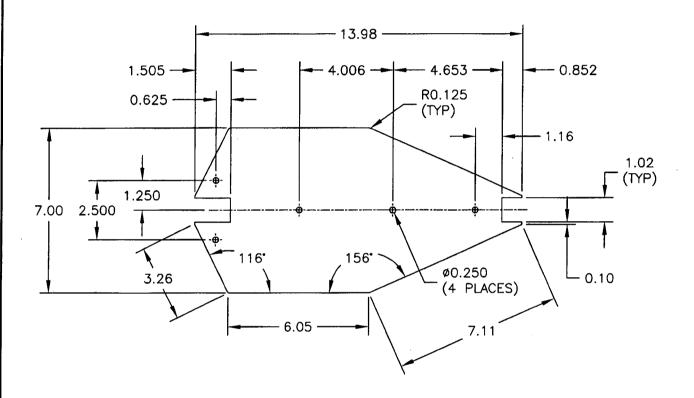






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07.12.06		FRAME WELDMENT	1:4





D3330-3 PLATE

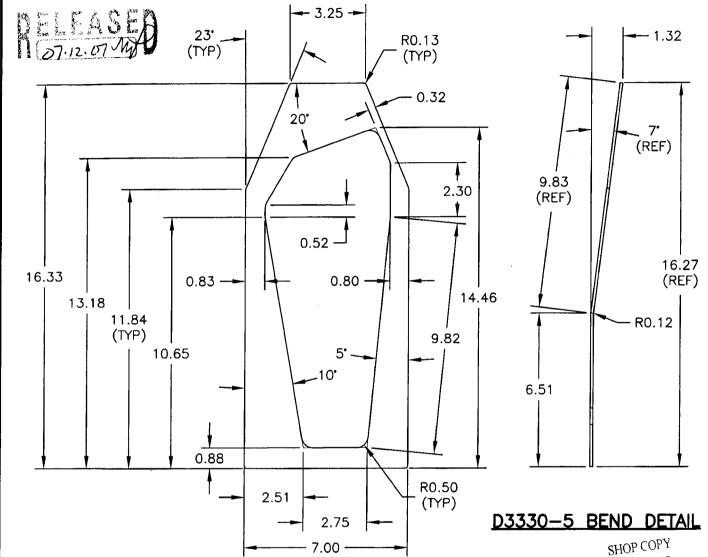
SHOP COPY RETURN TO ENGINEERING UNCONTROLLED COPY SUBJECT TO AMENDMENT WITHOUT NOTICE WORK ORDER

NOTES:

- 1) MATERIAL: AISI 1010-1025 OR ASTM A36/A366/A1008 OR CSA G40-21, 38W/44W/50W/60W/70W SERIES STEEL 11 GAUGE (0.125 THICK)
- 2) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- 3) ALL DIMENSIONS ARE IN INCHES
- 4) BREAK ALL SHARP EDGES 0.005 TO 0.010



DESIGN 3	DRAWN BY	DART AEROS HAWKESBURY, ON	
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1 3	M	D3330	SHEET 5 OF 9
DATE		TITLE	SCALE
07.12.06		FRAME WELDMENT	1:4



FLAT PATTERN

RETURN TO ENGINEERING UNCONTROLLED COPY SUBJECT TO AMENDMENT WITHOUT NOTICE

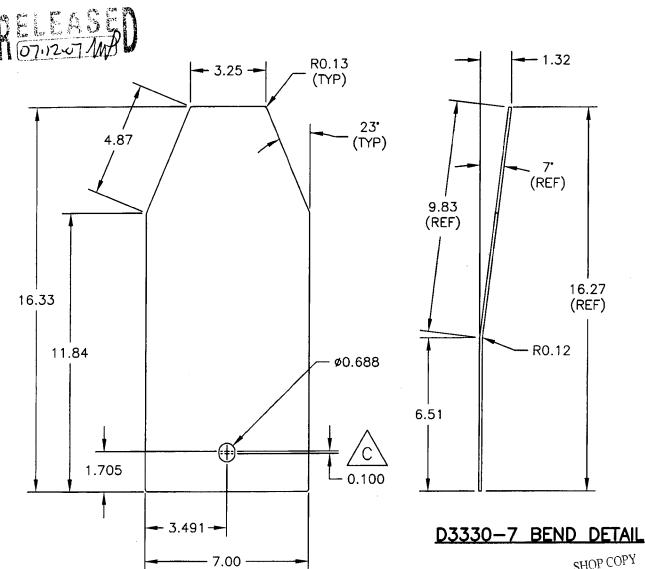
WORK ORDER

NOTES:

- 1) MATERIAL: AISI 1010-1025 OR ASTM A36/A366/A1008 OR CSA G40-21, 38W/44W/50W/60W/70W SERIES STEEL 11 GAUGE (0.125 THICK)
- 2) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- 3) ALL DIMENSIONS ARE IN INCHES
- 4) BREAK ALL SHARP EDGES 0.005 TO 0.010



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(3	1 /w	D3330	SHEET 6 OF 9
DATE	-1	TITLE	SCALE
07.12.06		FRAME ASSEMBLY	1:4



FLAT PATTERN

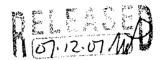
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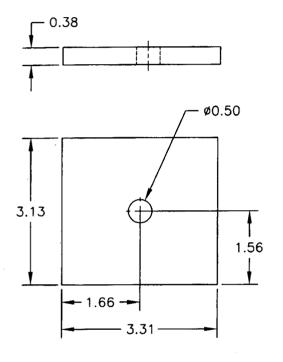
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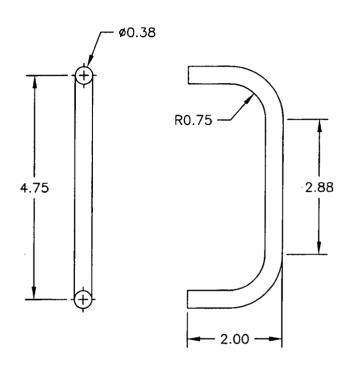
- 1) MATERIAL: AISI 1010-1025 OR ASTM A36/A366/A1008 OR CSA G40-21. 38W/44W/50W/60W/70W SERIES STEEL 11 GAUGE (0.125 THICK)
- 2) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- 3) ALL DIMENSIONS ARE IN INCHES
- 4) BREAK ALL SHARP EDGES 0.005 TO 0.010



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1 4] JVW	D3330	SHEET 7 OF 9
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07.12.06		FRAME WELDMENT	1:2







↑ D3330-9 TOP PLATE

1) MATERIAL: AISI 1010-1025 OR ASTM A36/A366/A1008, 0.375 STEENCONTROLLED COPY

(REF. DART SPEC. MICHOLOGICAL CONTROLLED COPY) SUBJECT TO AMENDMENT (REF. DART SPEC. M1010-B0.375x3.500)

2) MATERIAL: AISI 1018-1025 ROUND BAR PER MIL-S-7097 (REF. DART SPEC. M1018-R0.375)

3) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED

4) ALL DIMENSIONS ARE IN INCHES

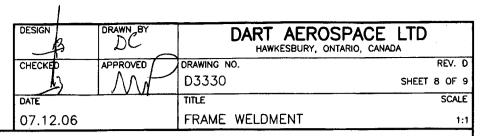
5) BREAK ALL SHARP EDGES 0.005 TO 0.010

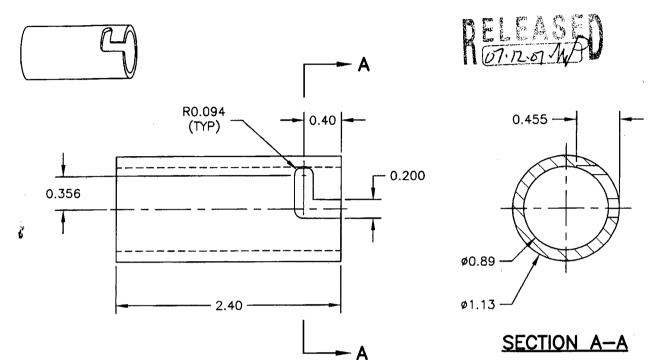
SHOP COPY RETURN TO ENGINEERING

WITHOUT NOTICE

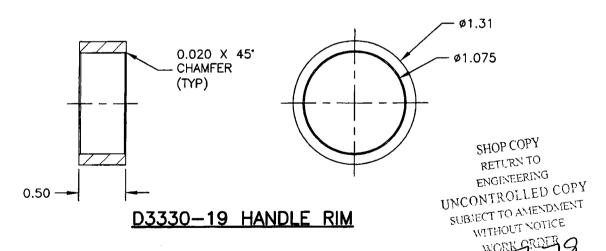
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D3330-17 HANDLE SOCKET

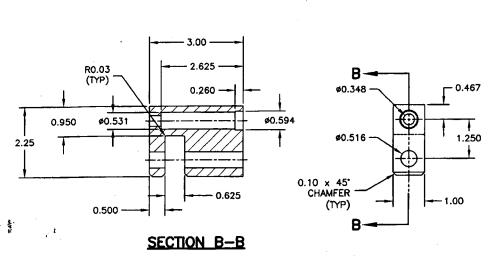


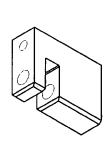
NOTES:

- 1) MATERIAL: 1010-1025 ROUND BAR STEEL PER MILL-S-7097 (REF. DART SPEC. M1025TR)
- 2) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- 3) ALL DIMENSIONS ARE INCHES
- 4) BREAK ALL SHARP EDGES 0.005 TO 0.010

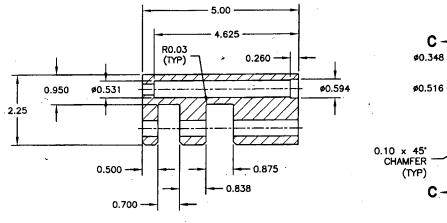


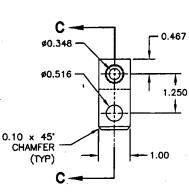
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DATE	<u> </u>	TITLE	SCALE
07.12.06		FRAME WELDMENT	1:3

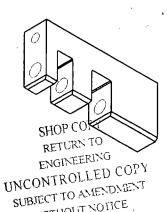




D3330-13 SHORT PIN BRACKET







WITHOUT NOTICE

SECTION C-C

D3330-11 LONG PIN BRACKET

NOTES:

- 1) MATERIAL: AISI 1010-1025 OR ASTM A36/A366/A569/A570, 1.000 THICK STEEL (REF. DART SPEC. M1010-B1.000x02.250)
- 2) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- 3) ALL DIMENSIONS ARE INCHES
- 4) BREAK ALL SHARP EDGES 0.005 TO 0.010